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Effects of thin Cr interlayer on time decay of magnetization and magnetization reversal for CoCrTaPt thin film media

Jian Ping Wang Lea Peng Tan Liew, T.Y.F. Teng, E. Po-Wen WangData Storage Inst., Nat. Univ. of Singapore;This paper appears in: **Magnetics, IEEE Transactions on**01/06/1998 -01/09/1998, Jul 1998Location: San Francisco, CA, USAOn page(s): 1537-1539Volume: 34, Issue: 4, Jul 1998ISSN: 0018-9464References Cited: 17CODEN: IEMGAQINSPEC Accession Number: 6013664**Abstract:**

The effect of thin Cr interlayer on the time decay of magnetization and magnetization reversal for CoCrTaPt/Cr/CoCrTaPt media is presented. The tin decay of magnetization was measured at various reverse magnetic fields. The maximum magnetic viscosity coefficient which occurs around the remanent coercivity increases with increasing interlayer thickness, which implies the degradation of thermal stability. The activation volume decreases with increasing Cr interlayer thickness. Both torque magnetometer and the law of approach to saturation methods were used to measure the magnetic anisotropy. The results show a decrease in anisotropy with increasing interlayer thickness which may explain the degradation of thermal stability. The distribution of rotational hysteresis losses (W_r) were measured and the rotational hysteresis integral ($\int W_r$) was found to decrease with increasing Cr interlayer thickness which may be caused by reduction of the magnetic interaction.

Index Terms:

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